

Title (en)

Liquid discharge head, liquid discharge apparatus and method for manufacturing liquid discharge head

Title (de)

Flüssigkeitsausstosskopf, Flüssigkeitsausstossvorrichtung und Verfahren zur Herstellung eines Flüssigkeitsausstosskopfes

Title (fr)

Tête d'éjection de liquide, appareil d'éjection de liquide et procédé de production d'une tête d'éjection de liquide

Publication

EP 1057634 A3 20010131 (EN)

Application

EP 00112010 A 20000602

Priority

- JP 15773799 A 19990604
- JP 15777799 A 19990604
- JP 15835999 A 19990604
- JP 15836699 A 19990604
- JP 15864899 A 19990604

Abstract (en)

[origin: EP1057634A2] The present invention provides a liquid discharge head comprising a plurality of discharge ports for discharging liquid, first and second substrates for defining a plurality of liquid flow paths communicated with the discharge ports, and a plurality of energy converting elements disposed in the liquid flow paths and adapted to convert electrical energy into discharge energy for liquids in the liquid flow paths, wherein sensors for detecting behavior of the liquid are provided in the respective liquid flow paths as solid structure portions protruded from walls of the liquid flow paths. <IMAGE>

IPC 1-7

B41J 2/05; **B41J 2/14**

IPC 8 full level

B41J 2/05 (2006.01); **B41J 2/14** (2006.01); **B41J 2/16** (2006.01)

CPC (source: EP US)

B41J 2/04541 (2013.01 - EP US); **B41J 2/04543** (2013.01 - EP US); **B41J 2/04553** (2013.01 - EP US); **B41J 2/04563** (2013.01 - EP US); **B41J 2/04571** (2013.01 - EP US); **B41J 2/0458** (2013.01 - EP US); **B41J 2/14048** (2013.01 - EP US); **B41J 2/14072** (2013.01 - EP US); **B41J 2/14129** (2013.01 - EP US); **B41J 2/14153** (2013.01 - EP US); **B41J 2/1604** (2013.01 - EP US); **B41J 2/1628** (2013.01 - EP US); **B41J 2/1629** (2013.01 - EP US); **B41J 2/1631** (2013.01 - EP US); **B41J 2/1642** (2013.01 - EP US); **B41J 2002/14354** (2013.01 - EP US); **B41J 2202/13** (2013.01 - EP US)

Citation (search report)

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- [A] US 5191360 A 19930302 - POHLIG DIETMAR [DE]
- [X] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 06 30 April 1998 (1998-04-30)
- [X] PATENT ABSTRACTS OF JAPAN vol. 1995, no. 10 30 November 1995 (1995-11-30)
- [DA] PATENT ABSTRACTS OF JAPAN vol. 1995, no. 05 30 June 1995 (1995-06-30)

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Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 1057634 A2 20001206; **EP 1057634 A3 20010131**; **EP 1057634 B1 20041208**; DE 60016503 D1 20050113; DE 60016503 T2 20051215; US 6474769 B1 20021105

DOCDB simple family (application)

EP 00112010 A 20000602; DE 60016503 T 20000602; US 58705300 A 20000602